

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER POR PATENTS PO Box 1430 Alexandria, Virginia 22313-1450 www.wepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,946	02/27/2004	Adrian Buckley	1578.122 (11764-US-PAT)	5765
44208 7590 11/04/2010 DOCKET CLERK			EXAMINER	
Kelly-Krause PO BOX 12608			HOANG, HIEU T	
DALLAS, TX 75225			ART UNIT	PAPER NUMBER
			2452	
			NOTIFICATION DATE	DELIVERY MODE
			11/04/2010	EL ECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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## Application No. Applicant(s) 10/789 946 BUCKLEY ET AL. Office Action Summary Examiner Art Unit HIEU HOANG 2452 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 13 September 2010. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.3-15.17-26 and 28-34 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1, 3-15, 17-26, 28-34 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948)

Paper No(s)/Mail Date

information Disclosure Statement(s) (PTO/SB/08)

5) Notice of Informal Patent Application

6) Other:

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#### DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 09/13/2010 has been entered.

2. Claims 1, 3-15, 17-26, 28-34 are pending.

#### Response to Arguments

- The 35 U.S.C. 112 rejection of claims 31, 32 and 34 has been maintained. See the Claim Rejections - 35 USC § 112 section below.
- 4. Applicant's arguments have been fully considered but are unpersuasive. Applicant argues that the prior art does not teach to "alter the indication of network-portion capability of any of the selected ones of the plurality of the plurality of networks of the listing when the message is of values identifying a network-portion capability to be different than identified in the listing." It is maintained that at least combination of prior arts Jorma and Bridges does teach the limitation (see Bridges, [0078], updating current network list with networks whose parameters have been changed). It would have been obvious to one skilled in the art at the time of the invention to update the network list with changes to current networks as taught by Bridges to the teachings of

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Jorma. The motivation would be to provide an up-to-date list of network parameters or capabilities.

### Claim Objections

5. Claims 1, 3-14, 33 are objected to because of the following informalities: independent claim 1 recites "the selected ones of the plurality of the plurality of networks", which seems to be a grammatical error. Appropriate correction is required.

### Claim Rejections - 35 USC § 112

- 6. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 7. Claims 31, 32, 34 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. There is no support for "a transmitter to convey the altered indication of the radio access network capability in the listing in the

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second database to the central database." in claim 34 and similar "conveying" limitations in claims 32 in the specification.

#### Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 1, 3-15, 17-20, 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jorma et al. (EP 0,781,064 A2, hereafter Jorma, cited in IDS), in view of Bridges et al. (US 2003/0186695, hereafter Bridges)
- 10. For claim 1, Jorma discloses an apparatus for a radio communication system having a mobile node selectably operable at least to communicate packet data with a network part, the network part comprised of a plurality of network portions, a first network portion of the plurality forming a home network associated with the mobile node, said apparatus for at least facilitating selection of with which network portion of the plurality of network portions that the mobile node communicates, said apparatus comprising:

a storage element embodied at the mobile node, said storage element for storing values defining a database (fig. 24, mobile device memory's database with service list),

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the database forming a listing identifying at least selected ones of the plurality of network portions together with an indication associated therewith of network-portion capability to provide packet data connectivity with the mobile node to communicate packet data therewith (col. 6 lines 16-31, list of networks available at the mobile device that supports certain services or capabilities such as data services), the listing dynamically updateable (abstract, search and update network list with new networks):

a detector coupled to the storage element and adapted to receive a message from a second network portion identifying values associated with the second network and to responsively alter the values stored in the storage element (col. 4 I. 46-51, col. 5 I. 30-37, mobile device searches for (second) networks and stores networks in an updated list of networks)

a selector adapted to access the database defined at said storage element, said selector for selecting through which of the network portions of the plurality of network portions to communicate the packet data, selection made by said selector at least in part dependent upon the listing formed of the database defined at said storage element (col. 5 lines 15-20, select a packet data supported service from a list).

storing the altered values stored in the storage element (col. 4 l. 46-51, col. 5 l. 30-37)

Jorma does not explicitly disclose altering the indication of network-portion capability of any of the selected ones of the plurality of the plurality of networks of the listing when the message is of values identifying a network-portion capability to be different than identified in the listing.

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Bridges discloses to alter the indication of network-portion capability of any of the selected ones of the plurality of the plurality of networks of the listing when the message is of values identifying a network-portion capability to be different than identified in the listing ([0078], only update changes in network parameters compared to current list of networks)

It would have been obvious to one skilled in the art at the time of the invention to update the network list with changes to current networks as taught by Bridges to the teachings of Jorma. The motivation would be to provide an up-to-date list of network parameters or capabilities.

- 11. For claim 3, Jorma-Bridges further discloses the network part broadcasts the messages delivered to the mobile node, and wherein said detector selectably detects broadcasts of the messages by the network part (Bridges, fig. 4, fig. 2A, [0046], [0074], central OTAF database containing PSL/IRDB information on list of services and providing downloading to mobile devices, [0085], [0125], broadcasting list).
- 12. For claim 4, Jorma-Bridges further discloses at least selected ones of the network portions of the network part broadcast messages of the values identifying the network portion capabilities, a selected message broadcast by a selected network part containing values identifying the network portion capabilities of the selected network portion from which the message is broadcast (Bridges, [0085], broadcast a message identifying which operator is providing services).

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13. For claim 5, Jorma-Bridges further discloses the selected message broadcast by the selected network portion is further of values identifying the network portion from which the message is broadcast (Jorma, abstract, which network has which services, Bridges, table 3, [0067]).

- 14. For claim 6, Jorma-Bridges further discloses each network portion of the plurality of network portions is identified by an identification code and wherein the values identifying the network portion contained in the selected message comprises the identification code (col. 2 lines 39-49, network ID, Bridges, table 3, networks 1 to n identity).
- 15. For claim 7, Jorma-Bridges further discloses the radio communication system comprises a cellular communication system operable generally pursuant to a GSM (Global System for Mobile communications) operating protocol that defines mobile country codes and mobile network codes and wherein the values identifying the network portion contained in the selected message comprise a mobile country code and a mobile network code associated with the network portion from which the message is broadcast (Jorma, col. 2 lines 39-49, network ID comprises country codes and network codes, col. 8 line 24, GSM).

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- 16. For claim 8, Jorma-Bridges further discloses each network portion of the at least selected ones of the network portions broadcast the messages upon broadcast channels of a set of broadcast channels and wherein said detector further selectably scans the broadcast channels of the set of broadcast channels to detect the broadcasts of the messages by the selected ones of the network portion (Bridges, [0085], broadcast channel messages to mobile terminal which detects and updates it own database).
- 17. For claim 9, Jorma-Bridges further discloses said detector is further coupled to said storage element, said detector further for storing at least selected values that define the database at said storage element (Bridges, [0085], store and update).
- 18. For claim 10, Jorma-Bridges further discloses said detector further selectably removes values from the database defined at said storage element (Bridges, [0085], overwrite, update).
- 19. For claim 11, Jorma-Bridges further discloses the database defined at said storage element further indicates availability of the at least selected ones of the plurality of network portions through which to communicate the packet data (Jorma, fig. 9B, packet data service, Bridges, [0085], which operator is providing service).
- For claim 12, Jorma-Bridges further discloses the mobile node is further selectably for communicating voice data and wherein the listing formed of the database

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defined at said storage element further identifies the at least selected ones of the plurality of network portions together with an indication associated therewith of network-portion capability to provide voice data connectivity with the mobile node to communicate voice data therewith (Jorma, fig. 12A, cellular network for voice).

- 21. For claim 13, Jorma-Bridges further discloses said selector is further selectably for selecting through which of the network portions of the plurality of network portions to communicate the voice data (Jorma, fig. 12A).
- 22. For claim 14, Jorma-Bridges further discloses the database forming the listing defined at said storage element is created by downloading thereto of a central database directory (fig. 4, fig. 2A, [0046], [0074], central OTAF database containing PSL/IRDB information on list of services and providing downloading to mobile devices), the database selectably updatable thereafter (Jorma, col. 4 lines 46-51, search and update a network list with new networks having desired associated capabilities).
- 23. For claim 33, Jorma-Bridges further discloses the operation of receiving messages is further performed subsequent to the operation of storing and wherein the operations of receiving and storing are iteratively performed (Jorma, col. 4 lines 46-51, update a currently stored list, Bridges, table 16, 17, scan periodically).
- 24. For claim 15, the claim is rejected for the same rationale as in claim 1.

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periodically).

25. For claim 17, Jorma-Bridges further discloses said operation of detecting is further performed subsequent to said operation of storing and wherein said operations of detecting and storing are iteratively performed (Bridges, table 16, 17, update

- 26. For claim 18, Jorma-Bridges further discloses the operation, prior to said operation, prior to said operation of detecting, of sending the messages to the mobile node (Bridges, [0085], broadcasting update messages).
- 27. For claim 19, Jorma-Bridges further discloses the messages detected during said operation of detecting are sent to the mobile node by selected network portions and wherein values contained in the messages are selectably stored during said operation of storing (Bridges, [0085], selectively update).
- 28. For claim 20, Jorma-Bridges further discloses the messages detected during said operation of detecting identify the network portion capabilities of associated network portions of the selected network portions (Jorma, abstract, which network has which services, Bridges, table 3, [0067]).
- Claims 21-26, 28-32, 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bridges, in view of Jorma, further in view of Whelan.

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 For claim 21, Bridges discloses a radio communication network having a plurality of radio access networks, comprising:

a first radio access network of the plurality of radio access networks forming a home radio access network associated with a mobile node (fig. 3 steps 4-6, [0060], home wireless carrier associated with mobile device);

a second radio access network of the plurality of radio access networks forming a roam radio access network to the mobile node (fig. 3, steps 6 and 10, [0046], network that is not in home market area or roaming), said second radio access network adapted to broadcast messages forming system identification messages including second radio access network services to the mobile node and to receive a communication from the mobile node indicating services requested (fig. 3, step 14, [0014], obtain SID broadcasted by roaming wireless carrier);

a central database accessible to any of the radio access networks of the plurality of the radio access networks (fig. 2A, fig. 4, central database of radio access networks);

a listing formed at said central database, said listing including a network identity ([0085], PSL/IRDB or preferred system identification list and intelligent roaming database, tables 2, 3).

a core network intercoupling the first radio access network, the second radio access network, and the central database (fig. 2A, 4, networks and OTAF), the mobile node receive message indicating the services at the second radio access network (fig. 3, step 14, obtain service from roaming carrier),

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Bridges does not explicitly disclose: indication of services available in a network identified by the network identity.

However, Jorma discloses the same (col. 4 lines 46-51, returns updated list of located networks with services to user)

Therefore, it would have been obvious for one skilled in the art at the time of the invention to combine the teachings of Jorma and Bridges to implement service selection from a service list distributed from a central database.

Bridges-Jorma does not disclose the core network adapted to provide a communication path for communication from the mobile node receiving message indicating services at the second radio access network for storage in the listing related to the second radio access network at the central database.

However, in the same field of endeavor, Whelan discloses a communication path for synchronizing between mobile unit association list (fig. 1, col. 8 l. 33-40, synchronizing between mobile unit list 34 and central database of roaming control server 12 association lists 16)

It would have been obvious to one skilled in the art at the time of the invention to apply synchronization of association lists of Whelan to Jorma-Bridges. The motivation would be to keep databases of the mobile device and the central database synchronized.

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31. For claim 22, Bridges-Jorma-Whelan further discloses said listing further includes a roaming network indication that identifies a network for use as a roaming network (Bridges, table 18, IRDB, roaming information).

- 32. For claim 23, Bridges-Jorma-Whelan further discloses the roaming network indication comprises an MCC, Mobile Country Code, and an MNC, Mobile Network Code (Jorma, col. 2 lines 39-49, network ID comprises country codes and network codes).
- 33. For claim 24, Bridges-Jorma-Whelan further discloses the network identity included at said listing comprises the network identity of a cellular network (Jorma, col. 2 lines 39-49, network PSID).
- For claim 25, Bridges-Jorma-Whelan further discloses the indication of the services included in said listing is represented in terms of an APN (Jorma, col. 2 lines 39-49, network PSID).
- 35. For claim 26, Bridges discloses a method for providing a mobile node with network information from a communication network including a first radio access network forming a home radio access network associated with a mobile node and a second radio access network forming a roam radio access network to the mobile node (fig. 2A, 4, home and roaming networks and OTAF), said method comprising:

connecting a central database to a network (fig. 4, central database), the central database including a listing, the listing having an identity of a network, a roaming

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indication ([0085], PSL/IRDB, system identification list, roaming, table 18 roaming indicator):

providing the mobile node with a copy of the central database connected during said operation of connecting (fig. 2A, download PSL/IRDB to the mobile device);

broadcasting messages forming system identification messages, including second radio access network services, to the mobile node from the second radio access network; receiving a communication at the second radio access network from the mobile node indicating services requested (fig. 3, step 10, 14, 16, [0014], obtain services messages broadcast by the roaming network);

the mobile node receive message indicating the services at the second radio access network (fig. 3, step 14, obtain service from roaming carrier).

Bridges does not disclose: an indication of services available in the network.

However, Jorma discloses: an indication of services available in the network (col. 6 lines 16-31. list of packet data networks available at the mobile device):

Therefore, it would have been obvious for one skilled in the art at the time of the invention to combine the teachings of Jorma and Bridges to implement service selection from a service list distributed from a central database to the system of Bridges.

Bridges-Jorma does not disclose providing a communication path for the communication from the mobile node receive message indicating services at the second radio access network for storage in the listing related to the second radio access network at the central database.

However, in the same field of endeavor, Whelan discloses a communication path for synchronizing between mobile unit association list (fig. 1, col. 8 l. 33-40, synchronizing between mobile unit list 34 and central database of roaming control server 12 association lists 16)

It would have been obvious to one skilled in the art at the time of the invention to apply synchronization of association lists of Whelan to Bridges-Jorma. The motivation would be to keep databases of the mobile device and the central database synchronized.

- 36. For claim 28, Bridges-Jorma-Whelan further discloses receiving a first message from the mobile node (Bridges, col. 4 lines 46-51, search command from user); sending a second message to the mobile node, the second message including a network identity and an indication of services available in a network identified by the network identity (Bridges, col. 4 lines 46-51, returns updated list of located networks with services to user)
- 37. For claim 29, Bridges-Jorma-Whelan further discloses the operation, prior to said operation of receiving, of sending, from the mobile node, the first message (Bridges, col. 4 lines 46-51, search command from user).
- 38. For claim 30, Bridges-Jorma-Whelan further discloses the operation, subsequent to said operation of sending the second message, of receiving the second message at the mobile node (Bridges, col. 4 lines 46-51, returns updated list of located networks with services to user)

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39. For claim 32, Bridges discloses a method in a mobile node capable of packet data communication with a network part, for selecting a radio access network of a plurality of radio access networks in the network part, the network part storing values defining a first database in a central database and the mobile node storing values defining a second database in a storage element, the first and second databases each forming a listing identifying available radio access networks of the plurality of radio access networks together with an indication associated therewith of radio access network capability to provide packet data communication with the mobile node, the method characterized by:

detecting messages received from the available radio access networks when the mobile device is not a party to a communication session ([0014], fig. 3, step 2, initialization state or not in session), the messages having values identifying the radio access network capabilities of the corresponding available radio access networks ([0085], detecting and receiving broadcast updates of PSL/IRDB, which includes network list with roaming information and class of services):

dynamically altering the indication of any radio access network capability of any of the available radio access networks of the listing in the second database when a message is of values identifying the radio access network capabilities to be different from identified in the listing ([0078], reprogram the changes in any entry, e.g. CoS);

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Bridges does not disclose: selecting a radio access network from the available radio access networks for packet data communication based upon the listing formed of the database defined during said operation of storing and altering.

However, Jorma discloses the same (col. 5 lines 15-20, selecting a network to perform service based on a list of available network with associated supported services)

Therefore, it would have been obvious for one skilled in the art at the time of the invention to combine the teachings of Jorma and Bridges to implement service selection from a service list distributed from a central database to the system of Bridges.

Bridges-Jorma does not disclose: conveying the altered indication of the radio access network capability in the listing in the second database to the central database.

However, in the same field of endeavor, Whelan discloses synchronizing between mobile unit association list (fig. 1, col. 8 l. 33-40, synchronizing between mobile unit list 34 and central database of roaming control server 12 association lists 16)

It would have been obvious to one skilled in the art at the time of the invention to apply synchronization of association lists of Whelan to Bridges-Jorma. The motivation would be to keep databases of the mobile device and the central database synchronized.

40. For claim 34, Bridges discloses a mobile node capable of packet data communication with a network part configured to select a radio access network of a plurality of radio access networks in the network part, the network part storing values defining a first database in a central database and the mobile node configured to store

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values defining a second database in a storage element, the first and second databases each forming a listing identifying available radio access networks of the plurality of radio access networks together with an indication associated therewith of radio access network capability to provide packet data communication with the mobile node, the mobile node characterized by:

a detector coupled to the storage element, the receiver configured to receive messages from the available radio access networks when the mobile is not a party to a communication session ([0014], fig. 3, step 2, initialization state or not in session), the messages having values identifying the radio access network capabilities of the corresponding available radio access networks ([0085], detecting and receiving broadcast updates of PSL/IRDB, which includes network list with roaming information and class of services); the detector further configured to alter the indication of any radio access network capability of any of the available radio access networks of the listing when a message is of values identifying the radio access network capabilities to be different from identified in the listing, the listing dynamically updateable ([0078], reprogram or updating the changes in any entry, e.g. CoS):

Bridges does not disclose: a selector coupled to the detector and the storage element, the selector configured to select a radio access network from the available radio access networks for packet data communication based upon the listing formed of the database defined in the storage element and the alteration made by the detector altering.

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However, Jorma discloses the same (col. 5 lines 15-20, selecting a network to perform service based on a list of available network with associated supported services)

Therefore, it would have been obvious for one skilled in the art at the time of the invention to combine the teachings of Jorma and Bridges to implement service selection from a service list distributed from a central database to the system of Bridges.

Bridges-Jorma does not disclose: a transmitter to convey the altered indication of the radio access network capability in the listing in the second database to the central database.

However, in the same field of endeavor, Whelan discloses synchronizing between mobile unit association list (fig. 1, col. 8 l. 33-40, synchronizing between mobile unit list 34 and central database of roaming control server 12 association lists 16)

It would have been obvious to one skilled in the art at the time of the invention to apply synchronization of association lists of Whelan to Bridges-Jorma. The motivation would be to keep databases of the mobile device and the central database synchronized.

41. For claim 31, Bridges-Jorma-Whelan further a receive part configured to receive a central database listing ([0085, download a PSL/IRDB from a central database to a mobile device), the central database listing having an identity of a network, a roaming indication (Bridges, [0085], PSL/IRDB, system identification list, roaming, table 18 roaming indicator).

42. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hieu T. Hoang whose telephone number is 571-270-

1253. The examiner can normally be reached on Monday-Thursday, 8 a.m.-5 p.m.,

EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thu Nguyen can be reached on 571-272-6967. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

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/Hieu Hoang/

Examiner, Art Unit 2452